# Resene Qristal Clear Polyurethane

Resene Qristal Clear is a range of hardwearing single pack polyurethanes. Designed using the most modern urethane resin for ease of application and maximum flow.

- **Resene Poly-Flat** produces a low sheen wax-like finish with excellent grain filling and sanding properties.
- **Resene Poly-Satin** produces a rich hardwearing semi-gloss finish with excellent sanding properties.
- **Resene Poly-Gloss** dries to an extremely hard high gloss finish (the wet look). Best applied over Resene Poly-Flat or Resene Poly-Satin.

Where a harder wearing surface is required, substitute Resene HD Poly-Satin for Resene Poly-Satin, or the full gloss Resene Polythane (see Data Sheet D53) for Resene Poly-Gloss.

## interior

## Physical properties

| | |
|---|---|
| **Vehicle type** | Polyurethane |
| **Pigmentation** | Flatting agents (flat and satin only) |
| **Solvent** | Mineral turps |
| **Finish** | Flat, semi-gloss and gloss |
| **Colour** | Amber/clear |
| **Dry time (minimum)** | 4 hours at 18°C |
| **Recoat time (minimum)** | 12 hours |
| **Sealer required** | Yes, on fibre and particleboard only |
| **Theoretical coverage** | 16 sq. metres per litre |
| **Dry film thickness** | Resene Poly-Flat and Resene Poly-Satin: 21 microns at 16 sq. metres per litre<br>Resene Poly-Gloss: 34 microns at 16 sq. metres per litre |
| **Usual no. of coats** | 3 |
| **Abrasion resistance** | Very good |
| **Chemical resistance** | Good |
| **Heat resistance** | 100°C (boiling water) |
| **Solvent resistance** | Good, resistant to alcohol |
| **Durability** | Excellent |
| **Thinning and clean up** | Mineral turps |
| **VOC** | Resene Poly-Gloss: 409 grams per litre<br>Resene Poly-Satin: 520 grams per litre<br>Resene Poly-Flat: 522 grams per litre<br>Resene HD Poly-Satin: 505 grams per litre<br>(see Resene VOC Summary) |

## Typical uses

- Architraves
- Desks
- Doors
- Fibre and particle board
- Furniture
- Panelling
- Plywood
- Skirtings
- Timber
- Veneers

## Performance and limitations

**Performance**
1. Excellent intercoat adhesion both initially and long-term.
2. May be used for nursery furniture.
3. Resistant to alcohol, vinegar and most food.
4. Suitable for use over Resene Waterborne Colorwood natural wood stain (see Data Sheet D50a).

**Limitations**
1. May be used for low traffic flooring. For high traffic flooring use Resene Polythane (see Data Sheet D53).
2. Not recommended for exterior use.
3. Fibre and particle board must be sealed with Resene Aquaclear (see Data Sheet D59) prior to application of Resene Qristal Clear Polyurethanes.

*Please ensure the current Data Sheet and Safety Data Sheet are consulted prior to specification or application of product. If in doubt contact Resene.*

# Qristal Clear Polyurethane

## Surface preparation

### New wood
Thoroughly sand surface. Ensure surface is clean and dry, free from dirt, dust and loose material, oil, grease and mould.

Stop all nailholes and cracked timber with Linseed Oil Putty or other suitable filler matched to the appropriate colour.

### Old wood
Prepare as for new wood. Ensure surface is clean and dry, free from dirt, dust and loose material, oil, grease and mould. Thoroughly sand surface to a uniform dull finish with fine sandpaper and remove sanding dust.

### Caution
Sanding dusts from some hardwoods are considered carcinogenic and all old timber sanding dusts should be considered potentially harmful. Always wear an efficient dust mask.

*Sanding dust from old lead or chromate based paints or old building materials containing asbestos may be injurious to the health if inhaled or ingested. Seek expert advice if the presence of these materials is suspected.*

## Application
Apply by brush, speed brush, roller or spray. Apply generously and lay-off in the direction of grain.

### New fibre and particle board
1. Apply one coat of Resene Aquaclear (see Data Sheet D59). Allow 16 hours to dry.
2. Apply two coats of Resene Qristal Clear Poly-Flat, Poly-Satin or Poly-Gloss allowing 12 hours between coats. Lightly sand with fine sandpaper between coats.

### Timber - new
1. Apply one coat of Resene Qristal Clear Poly-Flat or Poly-Satin and allow to dry for 12 hours. Use Resene Aquaclear (see Data Sheet D59) as the first coat on Matai, Spotted Gum and Totara.
2. Apply two coats of Resene Qristal Clear Poly-Flat, Poly-Satin or Poly-Gloss allowing 12 hours between coats. Lightly sand with fine sandpaper between coats.

### Timber – recoat
After preparing surface, apply one to two coats of desired Resene Qristal Clear Polyurethane, as for timber - new.

## Precautions
1. FLAMMABLE - Keep away from heat and open flame. Keep closed when not in use.
2. Avoid breathing vapour - use with adequate ventilation.

*Please ensure the current Data Sheet is consulted prior to specification or application of Resene products.*
*If the surface you propose to coat is not referred to by this Data Sheet, please contact Resene for clarification.*